



DRILL STEM TEST REPORT

Prepared For: **F.G Holl Company L.L.C**

9431 E Central Ste 100 Wichita KS
67206+2563

ATTN: Ryan Greenbaum

Panning "A" #1-17

17-20s-13w Barton

Start Date: 2013.11.20 @ 09:20:00

End Date: 2013.11.20 @ 13:14:30

Job Ticket #: 18522 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.11.20 @ 13:23:02



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DST#: 2

Test Start: 2013.11.20 @ 09:20:00

GENERAL INFORMATION:

Formation: **LKC D,E,F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:28:00

Time Test Ended: 13:14:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3330-Great Bend- 10

Interval: 3285.00 ft (KB) To 3318.00 ft (KB) (TVD)

Reference Elevations: 1879.00 ft (KB)

Total Depth: 3318.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6663

Press @ RunDepth: 53.55 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.20

End Date: 2013.11.20

Last Calib.: 2013.11.20

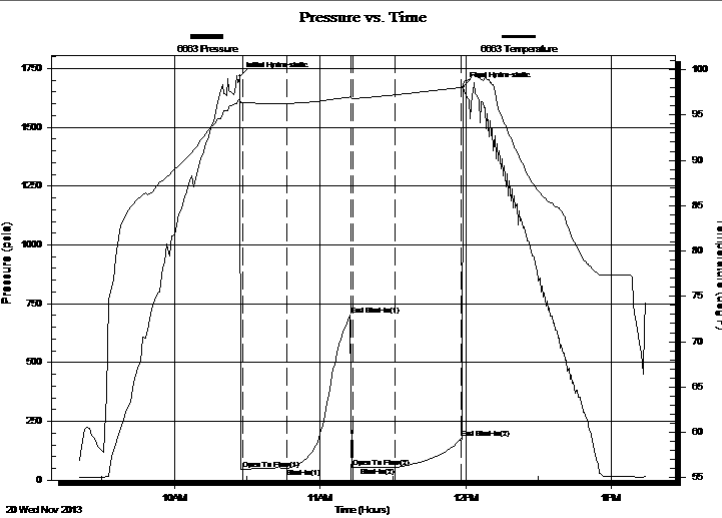
Start Time: 09:20:00

End Time: 13:14:30

Time On Btm: 2013.11.20 @ 10:27:00

Time Off Btm: 2013.11.20 @ 11:59:00

TEST COMMENT: 1st Opening 15 Minutes-Weak Blow built 3/4 inch into bucket w ater in 15 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 15 Minutes-Weak blow built 3/4 inch into bucket w ater in 15 minutes
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1717.43	96.72	Initial Hydro-static
1	45.70	96.37	Open To Flow (1)
20	51.11	96.28	Shut-In(1)
46	701.40	96.98	End Shut-In(1)
47	53.99	96.83	Open To Flow (2)
64	53.55	97.23	Shut-In(2)
91	176.31	98.04	End Shut-In(2)
92	1671.95	98.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	mud	0.35

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



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Reference Elevations: 1879.00 ft (KB)

Total Depth: 3318.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6748

Press @ RunDepth: 182.24 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.20

End Date: 2013.11.20

Last Calib.: 2013.11.20

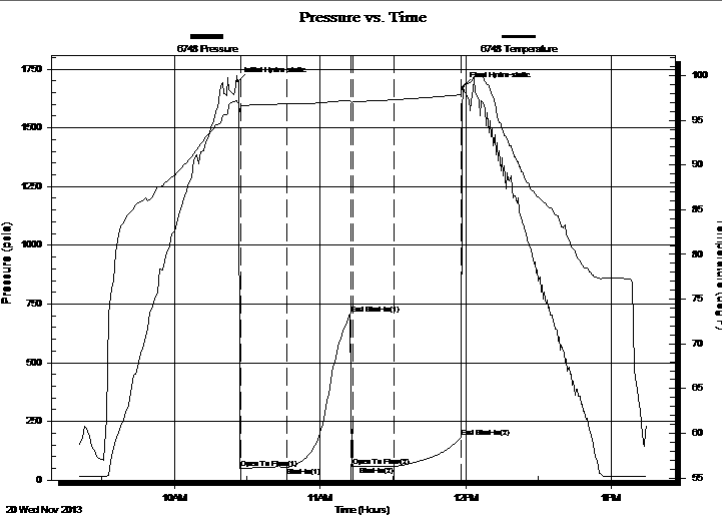
Start Time: 09:20:00

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Time On Btm: 2013.11.20 @ 10:26:00

Time Off Btm: 2013.11.20 @ 11:59:00

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 1st Shut-in 30 Minutes-No blow back
 2nd Opening 15 Minutes-Weak blow built 3/4 inch into bucket w ater in 15 minutes
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1697.32	96.99	Initial Hydro-static
2	48.94	96.62	Open To Flow (1)
21	55.25	96.82	Shut-In(1)
47	707.48	97.23	End Shut-In(1)
48	58.53	97.09	Open To Flow (2)
65	58.35	97.30	Shut-In(2)
92	182.24	97.86	End Shut-In(2)
93	1675.49	98.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	mud	0.35

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



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TOOL DIAGRAM

F.G Holl Company L.L.C

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Test Start: 2013.11.20 @ 09:20:00

Tool Information

Drill Pipe:	Length: 3279.00 ft	Diameter: 3.80 inches	Volume: 46.00 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 46.00 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3285.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	33.00 ft				
Tool Length:	62.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3257.00	
Shut-In Tool	5.00			3262.00	
Hydroic Tool	5.00			3267.00	
Jars	6.00			3273.00	
Safety Joint	2.00			3275.00	
Packer	5.00			3280.00	29.00 Bottom Of Top Packer
Packer	5.00			3285.00	
Perforations	28.00			3313.00	
Recorder	1.00	6663	Inside	3314.00	
Recorder	1.00	6748	Outside	3315.00	
Bullnose	3.00			3318.00	33.00 Bottom Packers & Anchor

Total Tool Length: 62.00



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 8100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	mud	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

